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In re Application of

Goicoechea et al.

Application Number

08/463,987

Filed

6/5/95

Paper No.

20

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United States Patent Application Publication No. _____, page, _____ line _____,

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United States Patent [19]

Goicoechea et al.

[11] Patent Number: **6,051,020**[45] Date of Patent: **Apr. 18, 2000**[54] **BIFURCATED ENDOLUMINAL PROSTHESIS**

[75] Inventors: **George Goicoechea**, Grand Bahama, Bahamas; **Claude Mlalhe**, Draguignan, France; **John Hudson**, Leicester, United Kingdom; **Andrew H. Cragg**, Edina, Minn.; **Michael D. Dake**, Stanford, Calif.

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[73] Assignee: **Boston Scientific Technology, Inc.**,
 Maple Grove, Minn.

[21] Appl. No.: **08/960,282**[22] Filed: **Oct. 29, 1997****Related U.S. Application Data**

[60] Continuation of application No. 08/463,987, Jun. 5, 1995, which is a division of application No. 08/317,763, Oct. 4, 1994, Pat. No. 5,609,627, which is a continuation-in-part of application No. 08/312,881, Sep. 27, 1994.

[30] **Foreign Application Priority Data**

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[51] Int. Cl.⁷ **A61F 2/00**[52] U.S. Cl. **623/1**[58] Field of Search 623/1, 12; 606/194,
606/195[56] **References Cited****U.S. PATENT DOCUMENTS**

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[57] **ABSTRACT**

An introducer for delivering into the vasculature a straight or bifurcated stent or prosthesis; a method for delivering into the vasculature a straight or bifurcated stent or prosthesis; a method of treating and angiological disease using a bifurcated stent; an endoluminal stent having perpendicular hoop members, each hoop member formed of wire in a sinuous configuration, at least some of juxtaposed apices in neighboring hoops being secured to one another, such stents also forming axially aligned segments in straight stents, and segments of bifurcated stents in particular embodiments. Certain embodiments of such stents also include barbs, fabric covering and radiopaque markers.

7 Claims, 23 Drawing Sheets